

Ammonia Nitrogen by SEAL AQ2 Discrete Analyzer SEAL Method EPA-103-A Rev. 4					Page 1 of 2
Facility Name: _____ VELAP ID: _____					
Assessor Name: _____ Analyst Name: _____ Inspection Date: _____					
Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
<i>Records Examined:</i> SOP Number/ Revision/ Date _____ Analyst: _____					
Sample ID: _____ Date of Sample Preparation: _____ Date of Analysis: _____					
1. Is the linear calibration range determined initially, and does it contain a minimum of a blank and three standards?	<i>Method Supplement 1, Rev. 2 (MS) 3.2.1</i>				
2. Is linearity reestablished if any verification data exceeds initial calibration values by $\pm 10\%$?	<i>MS 3.2.1</i>				
3. Is a laboratory control sample analyzed with every batch, and is recovery assessed against current laboratory criteria? <i>NOTE: The laboratory "should" establish upper and lower control limits from control charts based on % recovery.</i>	<i>MS 3.4.3, 3.4.3.4, 3.4.3.5</i>				
4. Is at least one method blank carried through all the procedural steps with each batch?	<i>MS 3.4.1.1</i>				
5. Is the calibration verified using a calibration standard after every ten samples or every analytical batch?	<i>MS 4.5</i>				
6. Is a minimum of 10% of all samples spiked with the stock standard?	<i>MS 3.3.1</i>				
7. For compliance monitoring, is the concentration of the matrix spike at the regulatory limit OR 1 to 5 times higher than the background concentration of the sample?	<i>MS 3.3.1.1.1</i>				
8. Are samples preserved with sulfuric acid to pH<2 and cooled to $\leq 6^{\circ}\text{C}$ at the time of collection?	<i>40CFR136.3 Table 1I</i>				
9. Are samples analyzed within 28 days?	<i>40CFR136.3 Table 1I</i>				
Notes/Comments:					

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10. Is calibration diluent solution equal to the concentration of sulfuric acid added when preserving samples, or are acid-preserved samples neutralized manually?	7.2				
11. Are samples distilled according to EPA 350.2, or are comparability data on representative effluent samples on file to show that the distillation is not necessary?	11.3				
12. Prior to distillation, is 1N NaOH added to 400 mL of sample until the pH is 9.5?	11.3 (EPA 350.2 Part 7.3)				
13. Is 25 mL of borate buffer added to samples after pH verification and prior to distillation?	11.3 (EPA 350.2 Part 7.3)				
14. Is a 300mL aliquot of sample distilled into 50mL of 2% boric acid solution?	11.3 (EPA 350.2 Part 7.3)				
15. Are test parameters set as specified by the method? These include 360 µL sample volume, 600 second reaction time, 660 nm wavelength, 32 µL EDTA buffer, 62 µL phenate, 35 or 42 µL hypochlorite, and 20 µL nitroprusside.	17.1				
16. Is ammonia-free ASTM Type II water or better used for all solutions?	7.1				

Notes/Comments: